# Polux <sup>sc</sup>otw 0.014"

#### .o Device Description

The Polux is an Over the Wire (OTW) peripheral balloon catheter, specially designed for Percutaneous Transluminal Angioplasty (PTA). It is a coaxial double lumen catheter with a balloon located near the distal tip. One lumen is used for inflation of the balloon and accessed via the side leg port. The second lumen, starting at the straight entry port, allows access to the distal tip of the catheter for guide wire insertion (max. 0.014"/0.36mm). The balloon has two radiopaque markers for positioning the balloon relative to the stenosis. The radiopaque marker bands indicate the dilating section of the balloon and aid in balloon placement. The balloon is dilated using the side leg port, at which the balloon material expands to a known diameter at specific pressure. The working pressure range for the balloon is betweer the nominal size pressure and the rated burst pressure. All balloons distend to sizes above the nominal size at pressures greater than the nominal pressure. The design of this dilatation catheter does not incorporate a lumen for distal dye injections or distal pressure measurements.

#### o Clinical benefit

- The intended clinical benefit of the Polux is to restore the patency of indicated vessel lumen. The indicated vessels include iliac, femoral iliofemoral, popliteal, infrapopliteal, and renal arteries, and native or synthetic arteriovenous dialysis fistulae and post-stent dilation. The clinical
- benefits of treatment of symptomatic Peripheral Artery Disease are: to inhibit the progression of PAD to reduce cardiac and cerebrovascular events
- to reduce the risk of peripheral arterial events in an aneurysm to reduce pain
- to improve mobility/walking performance and quality of life 3.0 Intended patient population:
- Patients with symptomatic ischemic peripheral artery disease. 4.0 How supplied
- Contents
- One (1) Balloon Dilatation Catheter
- One (i) Banton Dilataton Caneter One (i) Re-wrap Tool Sterile sterilized with ethylene oxide gas. Non-pyrogenic.
- · Storage Store in a dry, dark, cool place

#### 5.0 Intended use

The Polux Balloon Dilatation Catheter is intended for dilatation of stenosis and post-deployed stent in the peripheral vasculature.

### 6.0 Indications

- The balloon dilatation catheter is intended to dilate stenoses in the iliac femoral
- iliofemoral, popliteal, infrapopliteal, and renal arteries, and for the treatment of obstructive lesions of native or synthetic arteriovenous dialysis fistulae.
- This device is also indicated for dilatation of post-deployed stent in the

#### peripheral vasculature. .º Contraindications

- None known for Percutaneous Transluminal Angionlasty (PTA)
- The Polux PTA Catheter is contraindicated for use in the coronary arteries of the neurovasculature. It is also contraindicated when unable to cross the target

#### lesion with a guidewire.

- 8.0 Warnings The Polux PTA Dilatation Catheter is not intended for use in the coronary arteries
- · This device should only be used by physicians who are experienced and have a thorough understanding of the clinical and technical aspects of PTA. For single patient, single procedure use only. Do NOT resterilize and/or reuse risk as this can potentially result in compromised device performance and increase risk of inappropriate resterilization and cross contamination. Catheters and accessories should be discarded after one procedure. They are extremely difficult to clean adequately after being exposed to biological materials and may cause adverse patient reactions if reused. Cleaning these products may alter their structural properties. Accordingly, BrosMed Medical will not be responsible for any direct incidental or consequential damages resulting from reuse of the catheter
- Do NOT use the catheter if its package has been opened or damaged
  To reduce the potential for vessel damage the inflated diameter of the balloon should approximate the diameter of the vessel just proximal and distal to the stenosis When the catheter is exposed to the vascular system, it should be manipulated while under high-quality fluoroscopic observation. Do not advance or retract the catheter unless the
- balloon is fully deflated under vacuum. If resistance is met during manipulation, determine the cause of the resistance before proceeding. Balloon pressure should not exceed the rated burst pressure (RBP). Refer to the product label
- for device specific information. The RBP is based on results of in vitro testing. At least 99.9% of the balloons (with a 95% confidence) will not burst at or below their RBP. Use of a pressure-monitoring device is recommended to prevent over-pressurization Use only the recommended balloon inflation medium. Never use air or any gaseous medium
- to inflate the halloon. Do not use, or attempt to straighten, a catheter if the shaft has become bent or kinked as this may result in the shaft breaking. Instead, prepare a new catheter. • Use the catheter prior to the "Use by" date (Expiration Date) specified on the
- package 9.0 Precautions
- The catheter system should be used only by physicians trained in the performance o Appropriate anticoagulation, antiplatelet and vasodilator therapy should be administered to the patient

# **PTA Balloon Dilatation Catheter**

- Do not use if inner package is damaged or opened. Use prior to the expiry date
  - Carefully inspect the catheter prior to use to verify that the catheter has not been damaged during shipment and that its size, shape and condition are suitable for the procedure for which it is to be used.
  - cautions to prevent or reduce clotting should be taken when any catheter is used.
- Flush or rinse all products entering the vascular system with sterile isotonic saline or a similar solution via the guide-wire access port prior to use. Consider the use of systemi
- heparinization. When the system is introduced into the vascular system, it should be manipulated only
- under high quality fluorescopy. The Polux PTA Catheter must always be introduced, moved and or withdrawn over a
- guide wire (max. 0.014"/0.36mm).
- Never attempt to move the guide wire when the balloon is inflated. Do not advance the Polux PTA Catheter against significant resistance. The cause of
- resistance should be determined via fluoroscopy and remedial action taken. The minimal acceptable guiding catheter or introducer sheath French size is printed on the package label. Do not attempt to pass the Polux\_PTA Catheter through a smaller size guiding
- catheter or sheath introducer than indicated on the label
- The size of the inflated balloon should be selected not to exceed the diameter of the arter immediately distal or proximal to the stenosis.
- Inflation in excess of the rated burst pressure may cause the balloon to rupture
- Not intended for pressure monitoring or injection of contrast media or other fluids Caution: Larger models of Polux PTA balloon catheter may exhibit slower

## deflation times particularly on long catheter shafts.

.o Adverse Events Complications associated with the use of the Polux PTA catheter are similar to those

associated with standard PTA procedures. Possible adverse effects include, but are not limited to the following

- Puncture related Local hematoma
- Local hemorrhage
- Local or distal thromboembolic enisodes Thrombosis
- Arterio-venous fistula
- Pseudoaneurysm
  Local infections
- Dilatation related
- Acute reocclusion necessitating surgical intervention
  Dissection in the dilated artery wall
- Perforation of the artery wall
- Prolonged spasms Restenosis of the dilated artery
- Total occlusion of the peripheral artery
- Angiography related Allergic reaction to contrast medium
- Arrhythmias
- Death
- Drug reactions Endocarditis
- Hypotension Pain and tenderness
- Sepsis/infection
- Short-term hemodynamic deterioration

Systemic embolization Systemic embolization otice: any serious incident that has occurred *in relation to the device* should be reported to the manufacturer and the competent authority of the Member State in which he user and/or patient is established.

#### 1.0 Materials to be used in combination with a balloon catheter include:

- Guiding catheter(s) and / or introducer sheath(s) in the appropriate size and configuration for the selected vasculature (if applicable). See product label for
- specific device compatibility. specific device compatibility. Suitable guide wire, see product label for specific device compatibility. 20cc syringe for balloon preparation 10cc or smaller syringe for manual dye injections

- Appropriate inflation medium (e.g. 50:50 sterile mixture of a contrast medium and saline)
- Pressure-indicating inflation device Hemostasis valve
- o Preparation for Use
- Select an appropriate balloon catheter for the target vessel
- Remove the device from the sterile packaging Prior to use, examine all devices carefully for defects. Examine the dilatation catheter for bends, kinks, or any other damage. Do NOT use any defective device

Remove the protective balloon stylet and balloon protector Balloon Purging, purge air from the catheter using a zocc syringe filled with 2 to 3ml of the inflation medium with the balloon catheter pointing downward. Attach an inflation device to the balloon inflation port. Ensure that a meniscus of contrast medium is evident in both the catheter luer connector and the inflation device. Apply negative pressure with the inflation device. Do NOT attempt Pre-Inflation technique to purge the

balloon lumen Caution: All air shall be removed from the balloon and displaced with contrast medium prior to inserting into the body. Otherwise complications may occur.

3.0 Instruction for Use Insertion Technique

INSTRUCTIONS FOR USE

ENGLISH

Symbol

REF

LOT

BALLOON 🖉

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STERILE EO

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EC REP

MD

UDI

UK

Brosmed

E 2797

BALLOON -

Manufacturer:

BrosMed Medical Co., Ltd.

Office: +86 (769) 2289 2018

ed Medical B.V.

Office: +31 850 140 901

Email: cs@brosmed.com

UK Responsible Person

Pure Offices, Plato Close,

**Explanation of Symbols** 

Sterilized Using Ethylene Oxide

for use on company websit

Do not use if package damaged

Recommended Guide wire (Maximum)

Recommended Guiding Catheter (minimum)

Recommended Introducer Sheath (minimum)

(numeral represents quantity of units inside)

Authorized Representative in the European

Advena Ltd UK

Description

Lot Number

Catalog Numbe

Balloon Diameter

Balloon Length

Use By

Do Not Reuse

Do Not Resteriliz

Contents

Manufacture

Community

Medical Device

UKCA Mark

Unique device identifier

Date of manufacture

CE Mark

Fax: +86 (769) 2289 2016

Web www brosmed com

15th Building SMEs Venture Park

Dongguan, Guangdong, 523808, China

ECREP EU Authorized Representative:

Warwick CV34 6WE, United Kingdom

SongShan Lake Hi-Tech Industrial Development Zone,

Mgr. Buckxstraat 8, 6134 AP Sittard, The Netherlands

Single Sterile Barrier System With Protective Packaging Inside

Consult instructions for use or electronic instructions

- Place the guiding catheter or introducer sheath, with a hemostatic valve attached in the orifice of the target artery - Advance the guide wire through the guiding catheter or introducer sheath t
- reach and cross the target lesion. Advance the distal tip of the balloon cathete over the proximal end of the guide wire. Ensure that the guide wire exits the balloon catheter through the guide wire exit location
- Demostrative through the guide wire exit location
  The hemostasis valve should be gradually tightened to control back flow Excessive valve tightening may affect balloon inflation/deflation time as well a movement of the guide wire.
- Track the balloon catheter over the wire to cross the lesion using the radiopaqu marker(s) to locate the balloon across the lesion
- Balloon Inflation
- Inflate the balloon to dilate the lesion using standard PTA techniques
  After each subsequent inflation, the distal blood flow should be assessed If a significant stenosis persists, successive inflations may be required to resolve the stenosis. Do NOT exceed the rated burst pressure (see labeling)
- Confirm the results with fluoroscopy Removing the Catheter
   Apply negative pressure to the inflation device and confirm that the balloon is
- fully deflated Withdraw the balloon catheter into the guiding catheter or introducer sheath
- while preserving guide wire position After the deflated balloon dilatation catheter is withdrawn, it should be wiped clean with gauze soaked with sterile normal saline
- Inspect the balloon catheter integrity.
- If reinserting the same balloon dilation catheter, flush the guide wire lumen of the balloon dilatation catheter using the flushing needle as described in the "Preparation for Use" section Prior to reinsertion, the balloon dilatation catheter should be wiped clean with gauze soaked with sterile normal salin The balloon may be refolded using the rewrap tool as described in the Re-Fold

- This is an accessory component that allows the balloon to be rewrapped if

maintain under vacuum Visually inspect the balloon to confirm that it is fully deflated Remove the Re-fold Tool from Compliance Card

Load the non-flared end of the re-fold tool onto the stylet

Gently remove the re-fold device/stylet assembly

with hospital, administrative and/or local government policy

the proximal end of the balloon

required • Deflate the balloon by applying negative pressure to the inflation device and

Carefully load the stylet back through the distal tip of the catheter and past

 While holding the catheter just proximal to the balloon, push the re-fold device over the balloon in a gentle twisting motion until the entire balloor is covered

Inspect the balloon for any potential damage. Discard the balloon catheter if there is any visual damage present on the balloon.

After use, dispose and discard the product and packaging in accordance

Physicians should consult recent literature on current medical practice on balloon

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INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF

dilatation, such as published by American College of Cardiology/American Heart

Tool as described in the "Re-Fold Tool" Section Re-Fold Tool

- Disposal

LO Reference

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THE PRODUCT

5.0 Disclaimer of Warranty